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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/583,125	06/16/2006	Amiel A. Ishaaya	27489U	1823
20529	7590	07/11/2008		
NATH & ASSOCIATES 112 South West Street Alexandria, VA 22314			EXAMINER RODRIGUEZ, ARMANDO	
			ART UNIT 2828	PAPER NUMBER
			MAIL DATE 07/11/2008	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/583,125

**Applicant(s)**

ISHAAYA ET AL.

**Examiner**

ARMANDO RODRIGUEZ

**Art Unit**

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 01 April 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-72 is/are pending in the application.
- 4a) Of the above claim(s) 10-13, 16, 18, 31-57, 61-66, 68, 71 and 72 is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1, 3-8, 14, 15, 17, 19-23, 29, 58-60 and 67 is/are allowed.
- 6) ☒ Claim(s) 2, 9, 24-28, 30, 69 and 70 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 9-28-06, 9-21-07
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Election/Restrictions***

Claims 10-13, 16, 18, 31-57, 61-66, 68, 71 and 72 withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on April 1, 2008.

### ***Information Disclosure Statement***

The information disclosure statement filed 9-26-2006 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

No copy of NPL to D. Sabourdy et al has been received and has been crossed in the IDS.

### ***Claim Objections***

Claim 58 is objected to because of the following informalities: depends from claim 15(b) and should read claim 15. Appropriate correction is required.

Claim 60 is objected to because of the following informalities: depends from claim 15(a) and should read claim 15. Appropriate correction is required.

Claim 69 is objected to because of the following informalities: applicant's terms of "for use" is considered intended use. Appropriate correction is required.

Claim 69 is objected to because of the following informalities: the use of "so on" is not considered legal phraseology. Appropriate correction is required.

Claim 70 is objected to because of the following informalities: applicant's terms of "for use" is considered intended use. Appropriate correction is required.

Claim 70 is objected to because of the following informalities: the use of "vice versa" is not considered legal phraseology. Appropriate correction is required.

***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2, 9, 24, 25-28, 30, 69, 70 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 2 recites the limitation "said single gain medium" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim 9 recites the limitation "the output end reflector" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim 24 recites the limitation "the front facet" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim 24 recites the limitation "the first light channel" in line 5. There is insufficient antecedent basis for this limitation in the claim.

Claim 24 recites the limitation "the rear facet" in line 7. There is insufficient antecedent basis for this limitation in the claim.

Claim 25 recites the limitation "the output end" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim 26 recites the limitation "the single output" in 2. There is insufficient antecedent basis for this limitation in the claim.

Claim 27 recites the limitation "the output end" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim 27 recites the limitation "the front surface" in 3. There is insufficient antecedent basis for this limitation in the claim.

Claim 27 recites the limitation "the first light channel" in line 8. There is insufficient antecedent basis for this limitation in the claim.

Claim 28 recites the limitation "the substantially transmitting regions" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim 30 recites the limitation "the front facet" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim 30 recites the limitation "the single beam splitting sub-region" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim 69 recites the limitation "the first light channel" in line 9. There is insufficient antecedent basis for this limitation in the claim.

Regarding claim 70.

The requires for the light to be reflected, however the regions are recited as having "transmission or reflectivities", thereby the claim is ambiguous.

***Allowable Subject Matter***

Claims 1 and 67 are allowed.

Claims 2-9, 14, 15, 17, 19-30, 58-60 depend from claim.

The following is an examiner's statement of reasons for allowance:

Regarding claims 1 and 67.

None of the searched prior arts alone or in combination discloses the claimed resonator cavity with the structural combination of independent claim 1 and 67, including the intracavity beam coupler for spatially, separating the light, phase locking and partial coherent combining the light beam in a double pass through the beam coupler.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Claims 69 and 70 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ARMANDO RODRIGUEZ whose telephone number is 571-272-1952. The examiner can normally be reached on 9:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MINSUN HARVEY can be reached on 571-272-1835. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ARMANDO RODRIGUEZ/  
Primary Examiner  
Art Unit 2828

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